

VESTEA St.

HATIEGANU, I.; COSMA, V.; VESTE, St.; TANASESCU, R.; BOIERIU, I.; POPESCU, St.;
topan, M.

Aspects of dyskinesia of the large intestine in neuroses. Med. int.,
Bucur. 10 no.1:17-26 Jan 58.

1. Lucrare efectuata in Clinica Medicala I.P.S.M.F., Cluj.

(NEUROSES, manifestations

dyskinesia of large intestine, pathogen., ther. & case
reports)

(INTESTINE, LARGE, diseases

dyskinesia in neuroses, pathogen., ther. & case reports)

VESTRA, St., dr.; SCHWARTZ, M., dr.

Clinical considerations on thrombophlebitis of the upper extremity.
Med. int., Bucur. 11 no. 11: 1745-1749 N '59.

1. Lucrare efectuata in Clinica a III-a medicala, Cluj, director:
acad. I. Hatieganu.

(THROMBOPHLEBITIS)

(ARM, diseases)

(VASCULAR DISEASES PERIPHERAL)

FODOR, O., prof.; VESTEA, St.; BARBARINO, F., dr.

Contributions to the clinical aspects and pathogenesis of splenic diseases of splenic vein origin. Med. intern. 15 no.1:51-58 Ja '63.

1. Lucrare efectuata in Clinica a III-a medicala, I.M.F., Cluj,
(director: prof. O. Fodor).
- | | | |
|-----------------|---------------------|------------------------|
| (SPLENOMEGALY) | (HYPERSPLENISM) | (SPLENIC VEIN) |
| (ABNORMALITIES) | (THROMBOSIS) | (LIVER DISEASES) |
| (SPLENECTOMY) | (SPLENOPORTOGRAPHY) | (LIVER FUNCTION TESTS) |

VESTRA, St.; BACIU, Zoe; NICOARA, Sanda; SCHWARTZ, M.

Some biochemical problems in porphyrias and treatment with
AMP. (Apropos of 2 clinical cases). Stud. cercet. med. intern.
6 no.3:307-314 '65.

VESTRA, St., dr.; BACIU, Zoe, dr.; PASCU, L.; BADEA, Gr.

Pheochromocytoma with attacks of arterial hypotension. Med. intern.
(Bucur) 17 no.6:731-736 Je'65.

1. Lucrare efectuata in Clinica a III-a medicala, Institutul
medico-farmaceutic, Cluj (director: Prof. O. Fodor).

VESTECKA, M.

Vestecka, M.

Mobile repair shop for combines during the harvest. p. 211.

Vol. 5, no. 11, June 1955
MECHANISACE ZEMEDILSTVI

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No.9,
Sept. 1955, Uncl.

VESTEL', A.N. (Kiyev); SHKIYARSKIY, N.D. (Kiyev); KHMELYUK, A.I. (Kiyev)

Changing the structure of an area to service the "christmas tree"
gas wells. Stroi. truboprov. 9 no.10:28 0 '64. (MIRA 18:7)

1. Rabotniki SU-4 tresta Ukgazneftestroy.

USSR/Chemistry - Corrosion *VESTEL', G. M.*

FD-3365

Card 1/1 Pub. 50 - 9/20

Authors : Sinayskiy, G. M., Smirnov, N. P., Raspopova, L. V., Vestel', G. M.,
Krist'yan, M. A.

Title : The protection of heat exchangers from corrosion caused by water

Periodical : Khim. prom. No 7, 419-423, Oct-Nov 1955

Abstract : Found that coating of heat exchanger tubes with bakelite reduced corrosion considerably and improved the heat transfer coefficient as compared with that of unprotected tubes that had corroded. Twelve references, all USSR, 4 since 1940. Two figures, 1 graph, 4 tables.

Institution : --

Submitted : --

VESTEL, L.

PA 22/49T102

USSR/Radio Stations
Radio, Amateur

Oct 48

"Radio Amateurs in the Antarctic," L. Vestel', $\frac{1}{2}$ p

"Radio" No 10

Mentions USSR stations received by whaler.
"Slava" in Antarctica 1947-48.

IC

22/49T102

VESTER, R.

New features in the trade of the Estonian S.S.R. Sov. torg. 34
no.4:32-37 Ap '61. (MIRA 14:4)

1. Ministr torgovli Estonskoy SSR.
(Estonia—Retail trade)

DYAD'KIN, Yu.D.; MODESTOV, Yu.A.; KAREPIN, B.G.; VESTERMAN, G.M.

Operation of a protective shield under the effect of impact
loads in free roof caving. Zap. LGI 48 no.1:64-72 '63.
(MIRA 17:8)

WESTERMAN, M.

Revolutionary events in northern Vidzeme. p. 24,
RADIOAMATOR, Warszawa. Vol. 5, no. 3, Mar. 1955.

SOURCE:

East European Accession List (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

VESTERMAN, Ye. S.

GUREVICH, A.O., kand.med.nauk; VESTERMAN, Ye.S.; PORTSIAKHOVA, A.K.

Pathogenesis and clinical aspects of tuberculosis in adolescents.
Pediatriia 36 no.1:29-34 Ja '58.
(MIRA 11:2)

1. Iz Respublikanskogo protivotuberkuleznogo dispansera Latvieskoy
SSR (glavnyy vrach Ye.Ye.Kuznetsova)
(TUBERCULOSIS) (ADOLESCENCE)

WESTERMANIS, M.

Some archive materials on V. D. Ul'rikh and his role in the revolutionary movement in Latvia. Vestis Latv ak no.5:13-18 '61.

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859620014-5

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859620014-5"

Card 1/2

VESEROV, I.V.; BABUSHKIN, Z.I.; PETHUNIN, A.D.

~~SECRET~~
Clinical aspects and diagnosis of phytobezoars of the stomach. Vest.
khir. Grekova, Leningr. 72 no.1:47-48 Jan-Feb 1952. (CML 22:1)

1. Of Yalta Municipal Hospital (Head Physician -- T. P. Belonenko).

CA

1ST AND 2ND ORDER

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDER

9

Ore dressing on stationary inclined planes. B. A. Vasil'evskii. *Mekhanicheskoi Obrabotki Polesennikh Tver-*
stymkh "Mekhanizmy," 18 yrs. Socialistich Ind. Service 1,
401 70 (in English 479 80) (1935). - In a study of dressing
of asbestos ore and of coal on stationary inclined planes,
the following factors were investigated: angle of incline
of plane, distribution of ore, size of material, rate of feed-
ing, scale of classification, type of surface of plane (i. e.,
iron, glass, rubber) and length of plane. S. L. M.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

22

~~VESTERSKIY, P. H.~~
~~VESTERSKIY, N. M., inzh.~~

Excavation work in constructing the earth dam at the site of the
Irkutsk Hydroelectric Power Station. Mekh. stroi. 15 no. 1:8-12
Ja '58.

(MIRA 11:1)

(Earthwork--Cold weather conditions) (Dams)
(Dredging machinery--Cold weather operations)

ROGOVSKIY, I.V., inzh.; MIROPOL'SKAYA, N.K., inzh.; VESTERSKIY, N.M.,
inzh.; NI, V.N., kand.tekhn.nauk; VLASOV, P.Ye., red.izd-va;
YUDINA, L.A., red.izd-va; MEDVEDEV, L.Ya., tekhn.red.;
OSIANKO, L.M., tekhn.red.

[Handbook on building; earthwork] Spravochnik po obshche-
stroitel'nym rabotam; zemlianye raboty. Moskva, Gos.izd-vo
lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 425 p.
(MIRA 14:2)

(Earthwork)

Source: Lib. of Cong. Subj. Cat., 1950, vol. 2.
Available: Library of Congress, Call No: ZP156.F5V4

Subject: Filters and filtration.

Date: 1949. Moscow

Title: Continuous Vacuum Filters.
64 pp.

Author: Vestfal, E. A.

VESTFAL, E. A.

VESTFAL', E. A.

Vakuum-fil'try nepreryynogo deistviia. Moskva, Mashgiz, 1949. 64, (4) p. illus.

Bibliography: p. (66)

Continuous vacuum filters.

DLC: TP156.F5V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

VESTFAL', N.I., aspirant

Colorimetric determination of small quantities of strychnine
recovered from biological material. Apt.delo 7 no.3:27-32
My-Je '58 (MIRA 11:7)

1. Iz kafedry sudebnoy khimii (nauchnyy rukovoditel' - prof.
M.D. Shvaykova) Moskovskogo farmatsevticheskogo instituta
(dir. V.I. Dobtynina).
(STRYCHNINE)

VESTFAL', N.I.

Use of electrodialysis in the medicolegal analysis of alkaloids.
Sud.-med.ekspert. 2 no.3:26-31 JI-S '59. (MIRA 13:4)

1. Kafedra sudebnoy khimii (zav. - prof. M.D. Shvaykova) farmatsevticheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(ELECTRODIALYSIS) (ALKALOIDS)

VESTFAL', N.I.

Qualitative reaction for pachycarpine and methyl caffeine. Apt.
delo 10 no. 2:38-41 Mr-Ap '61. (MIRA 14:4)

1. Kafedra farmatsevticheskoy khimii (ispolnyayushchiy obyzannosti
zaveduyushchego - dotsent G.A. Melent'yeva) farmatsevticheskogo
fakul'teta 1 Moskovskogo ordena Lenina meditsinskogo instituta
imeni I.M. Sechenova.

(PACHYCARPINE) (CAFFEINE)

VESTFAL', N.I.

Isolation of pachycarpine in medicolegal examinations by the
electrodialytic method. Apt. delo 10 no.5:42-46 S-O '61.

(MIRA 14:12)

1. Farmatsevticheskiy fakul'tet I Moskovskogo ordena Lenina meditsin-
skogo instituta imeni I.M.Sechenova.

(PACHYCARPINE)

(ELECTRODIALYSIS)

(IDENTIFICATION)

VESTFAL, V. A.

Author: Vestfal, E. A.

Title: Continuous Vacuum Filters.
64 pp.

Date: 1949. Moscow

Subject: Filters and filtration.

Available: Library of Congress, Call No: TP156.F5V4

Source: Lib. of Cong. Subj. Cat., 1950, vol. 2.

1ST AND 2ND ORDERS																										PROCESSES AND PROPERTIES INDEX																										3RD AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIABLE NOTES																																																			
<p>CA</p> <p>1. Iron diffusers for the extraction of tanning materials. M. I. Karpman and F. A. Vestfikh. <i>Koshchenko (Kup- naya Prom. S. S. R. 18, No. 12, 35 (1989)).</i>—Construc- tion details. A. A. Bachtlingk</p>																																																																													
<p>ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																																													
<p>100000-1000000</p>																																																																													
<p>100000-1000000</p>																																																																													

LIST AND THE PROPERTIES OF THE

PROCESSING AND PROPERTIES OF THE

Ca

29

Aging of liquid tanning extract. M. I. Karpman and
 P. A. Vasil'ev. *Koshevno-Obuvnaya Prom. S. S. R.*
 10, No. 1; 23-4 (1940).—Oak ext. when treated with 2%
 bisulfite can be stored for 30-40 days. Thereafter a sharp
 increase in the content of sugar and insol. substances is
 observed in the ext., while the tannin content decreases
 sharply. A. A. Boetlingk

ASG-31A METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED BY ONE OF THE

CLASSIFIED BY ONE OF THE

<div style="display: flex; justify-content: space-between;"> 1st and 2nd cover PROCESSING AND PROPERTIES INDEX 3rd and 4th covers </div>																									
<div style="display: flex; justify-content: space-between;"> 29 29 </div>																									
<p>Extract from the chestnut leaf. M. I. Karpman and F. A. Vestfjal, <i>Kokchetovo-Oblastnaya Prom. S. S. S. R.</i> 19, No. 8, 30-31(1940). --Chestnut leaves when picked soon after dropping, extd. at 100°, and dried yield a dry substance contg. nontanning matter 39.36 and tannin 54.03%, "goodness" 52.74 (an arbitrary designation). The residue can be used as boiler fuel when mixed with oak wood left after ratn.</p> <p style="text-align: right;">A. A. Bochtchuk</p>																									
<div style="display: flex; justify-content: space-between;"> ASSOCIATED METALLURGICAL LITERATURE CLASSIFICATION 220000 220000 </div>																									
<div style="display: flex; justify-content: space-between;"> 220000 220000 220000 220000 </div>																									

29

ca

The influence of the quality of the water used on the extraction process. M. I. Karpman and F. A. Vostrikov, *Lezhaya Prom.*, 1, No. 4, 51 (1941); *Chem. Zvest.* 1943, 11, 1518; cf. *C. A.* 37, 4371^b.—In the extn. of tanning matter from oak shavings the purity of the water used has a marked influence on the extn. process. Suspended matter and metal salts (Fe, Hg) are especially troublesome. The addn. of a slight amt. of NH_3 (0.07 g./l.) improves the extn. Both NaOH and HOAc have an undesirable effect. M. G. Moore

VESTFRID, TS. Yu.

TOLMACHEV, V.N.; VESTFRID, TS. Yu.

Spectrophotometric analysis of the interreactions between zinc ions and purpuric acid. Zhur. neorg. khim. 2 no.1:60-64 Ja '57

1. Nauchno-issledovatel'skiy institut khimii Khar'kovskogo gosudarstvennogo universiteta im. A.M. Gor'kogo.
(Purpuric acid) (Zinc compounds)

VESTITSKIY, M. [Vestytski, M.], lektor; SHISHKIN, I. Shyshkin, I.], lektor

Can we make rain? Rab. i sial. 35 no.7:20 JI '59.

(MIRA 12:12)

1. Moskovskiy planetariy. Deystvitel'nyye chleny Geograficheskogo
obshchestva SSSR.

(Rain making)

ACC NR: AF6026421

(A, N) SOURCE CODE: UR/03/2/66/000/005/0020/0033

AUTHOR: Vestman, O. A. (Captain 1st Rank); Shvarev, Yu. N. (Captain 2d Rank, Candidate of Naval Sciences)

ORG: None

TITLE: Military economic analysis, its tasks and fundamental principles

SOURCE: Morskoy sbornik, no. 5, 1966, 28-33

TOPIC TAGS: government economic planning, economic development, economic organization, economic program, economic system, economics, weapon effect, weapon system, statistic analysis, research program

ABSTRACT: Military economic analysis is still inadequately formulated. There is a need to determine what constitutes a rational system for determining armament costs, based on the particular concepts prevalent in the country in question and on the state of its economy. The military economic problem differs from country to country. Different definitions are discussed with emphasis on the United States version. The formulation of a proper military economic analysis is needed in order to resolve military economic problems. The basic test of such an analysis is that of effectiveness, defined as the ratio of the result (effect) to the expenditures needed to bring them about. In the military field effect is said to be the capacity of the weapon

Card 1/2

ACC NR: AP6026421

system to carry out assigned missions in war. Expenditures include development, manufacture, perfecting, and operating a new system. After studying all these factors, the basic criterion in the selection of one system over another is that of the complex cost of the program. The concept mentioned above gives rise to the last controlling factor in this study, that of justifying a weapon system. The steps to be applied in order to determine which method a country's armed forces as a whole should take in weapon development are suggested.

SUB CODE: 15,05/SUBM DATE: None/ORIG REF: 004

Card 2/2

COUNTRY : CZECHOSLOVAKIA H
 CATEGORY : Chemical Technology. Chemical Products and Their
 Application. Water treatment. Sewage.
 ABS. JOUR. : RZhKhim., No 17, 1959, No. 61256
 AUTHOR : Vestrcil, J.
 INSTITUTE : -
 TITLE : Hydrochemical Characteristic of Ostravitse
 River
 ORIG. PUB. : Prirodoved. sbor. Ostravskeho kraje, 1958, 19,
 No 1, 89-96
 ABSTRACT : Presented is the hydrochemical characteristic of
 the Ostravitse river, obtained as the result of
 an investigation, conducted in 1950-1954. Upst-
 ream of Friedlant the river is entirely unpolu-
 ted. Downstream of Friedlant it is poluted to a
 small degree by the effluent water from a meta-
 llurgical plant. Downstream of Vlatimov, where
 considerable effluents of the cellulose factories
 are dumped into the river, water is poluted to a
 great degree. Thereafter, no complete self-puri-
 fication is noted over the remaining length of
 the river. -- V. Berenfel'd.

Card: 1/1

H - 14

1. VESVIZHSKIY, O. A.
2. USSR (600)
4. Kilns, Rotary
7. Welded shells of rotary kilns. TSement 18 No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	
<p>4794. PHENOLS FROM SEMI-COAL TAR OR ITS DERIVATIVES. Barna(=sen- feldolgozo es Vasyipari R.T. and Harpati, J. (Hungarian P. 132,192/ 1943; abstr. in Chem. Abstr., 1948, vol. 42, 9120).</p> <p>Distillation products of brown coal tar or its derivatives obtained below 240° are fractionally extracted with not more than 2 parts of 40-60% aqueous alcohol. The alcohol is distilled off, the more volatile im- purities are separated by known azeotropic methods, the less volatile ones are oxidized with air, and refined phenols are distilled.</p>	
<p>ASS. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION</p> <p>FROM SOURCE</p>	
<p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100</p>	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200

201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400

401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500

501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600

601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700

701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800

801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900

901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100

1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200

1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300

1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400

1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500

1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600

1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700

1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800

1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900

1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100

2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200

2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300

2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400

2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500

2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600

2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 26

1ST AND 2ND ORDERS		PROCESSING AND PROPERTIES MODE		3RD AND 4TH ORDERS	
BC				A-4	
<p>Renin content of infants' urine. G. SHANIN and L. VERNIKOV (Ovesti Medits, 1963, 77, 757-759).—Urine (I) of infants contains no renin (II) when they are fed with human-milk. If about half of the necessary milk is replaced by other food, (II) appears in the (I). This also occurs, independently of the food ingested, in toxicosis. Nutr. Abs. (n)</p>					
<p>ASH-55A METALLURGICAL LITERATURE CLASSIFICATION</p>					
10000 000 000 000		10000 000 000 000		10000 000 000 000	
10000 000 000 000		10000 000 000 000		10000 000 000 000	

VESZELAK, L., inz.

Two-decker railroad cars for transportation of automobiles. Zel dep
tech 10 no. 1:24-25. '62

VESZELAK, Robert

Development of our district heating systems. Magyar ep ipar
11 no.3:129-132 '62.

[illegible]

1ST AND 2ND QUANTITIES		PROCESSING AND PROPERTIES INDEX		3RD AND 4TH QUANTITIES	
<p>Ca</p> <p>Two organic reactions producing chemiluminescence. Other Voids. <i>Technique</i> <i>Amir</i> 8, 7 (1937); cf. C. A. 81, 6670. Chemiluminescent reactions seem to be strongly exothermic. Highly fluorescing substances mostly show also chemiluminescence. The highest observed value in homogeneous gas reactions is 0.1 quantum per mol. Values are significantly less in liquid systems. The highest values of liquid systems are shown by (1) oxidation of aminophthalhydrazide with H₂O₂ (giving 0.005 quantum per mol.) and (2) the oxidation of biacridine (with higher</p> <p>C₁₀H₈, C₁₀H₆, butane, isobutane, pentane, isopentane, MeC, hexane, 2-methylpentane, 3-methylpentane, 2,3-</p>					
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION					
FROM SYMBOLS		FROM SYMBOLS		FROM SYMBOLS	
FROM SYMBOLS		FROM SYMBOLS		FROM SYMBOLS	

VESZI, Laszlo

Let us debate about motor sport! Auto motor 14 no.1:28 Ja '61.

1. "Pannonia szocialista'motorszerelo brigad" vezetoje

JOSFAY, Gyorgy; EBERGENYI, Ilona; VIG, Aniko; KATONA, Eva; GUGCS(), Hilda(Csepel);
KOKAY, Peterne; VESZPREMI, Barnane, dr.

Economical women - outstanding innovators. Ujit lap 13 no.24:12-13
D '61.

1. Kerokpargyar technikusa, Csepel (for Ebergenyi) 2. Motorkerokpargyar
technologusa, Csepel (for Vig) 3. Femmu kutatomernoke, Csepel (for
Katona) 4. Ontode anyagbeszerzoje, Csepel (for Kokay) 5. Kozponti
Anyavisszago kivalo dolgozoja (for Veszpremi).

VESZTROCZY, Erno; KONDASZ, Istvan

Layer resistors. (To be contd.) Radiotechnika 10 no.5:133-134 Ky '60

VESZTRCCZY, Erno; KONDASZ, Istvan

Layer resistors. (To be contd.) Radiotechnika 10 no.7:223 J1 '60.

VESZTROCZY, Erno; KONDASZ, Istvan

Layer resistors. Radiotechnika 10 no.8:252-254 Ag '60.

VESZTROCCZY, Erno; KONDASZ, Istvan

Layer registers. Radiotechnika 10 no.10:311 0 '60.

8(4)

SOV/91-59-6-17/33

AUTHOR: Vetchaninov, Ye.Z., Electrician

TITLE: An Electric Heater for an Electrolytic Installation

PERIODICAL: Energetik, 1959, Nr 6, p 22 (USSR)

ABSTRACT: The regular electric heater for the SEU-4 electrolytic installation, used for heating up the air used for regeneration of silica gel in drying columns, often went out of action because of burned out spirals, caused by deformation of the cores. An unidentified power station has constructed a simple and reliable electric heater shown schematically on page 22. It consists of a transformer with a core of transformer steel 120 cm² in cross section. The primary winding is made of insulated copper wire, is calculated for 380v, 18a. The secondary winding, made of a stainless steel pipe 22 mm in diameter, has the form of a coil and consists of 6 loops. Its ends are short-circuited by

Card 1/2

SOV/91-59-6-17/33
An Electric Heater for an Electrolytic Installation

a welded-on busbar. The rate of air preheating is regulated by the number of loops of the primary winding. When the primary winding is fed by with 380v current, the secondary current appears in the coil and heats up the air contained therein. There is 1 circuit diagram.

Card 2/2

VERCHENKO, A. Kh., kandidat tekhnicheskikh nauk

Problem of accurate calculation of railroad tracks subjected to
the action of static vertical forces. Trudy TSNII MPS no. 97:5-
24 '55. (MIRA 8:12)

(Railroads--Track)

TRAVNIKOV, N.; VETCHININ, N.

They work like communists should. NTO 4 no.1:20-24 Ja '62.
(MIRA 15:1)

(Moscow--Clockmaking and watchmaking)

VETCHINKIN, A.

Economical automobile radio. Radio no.6:46-47 Je '60.

(MIRA 13:7)

(Radio--Receivers and reception)

VETCHINKIN, A. R.

Vetchinkin, A. R. - "The present importance of natural organic dyestuffs," Trudy
Sarat. ekon. in-ta, Vol II, 1949, p. 253-74, - Bibliog: 30 items

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949),

~~VETCHINKIN, A. N.~~

Dissertation defended for the degree of Candidate of Technical Sciences at the Institute of Earth Physics imenē O. Yu. Shmidt in 1962:

"Registration of Seismic Vibrations Using Data Storage and a Capacitative Seismograph."

Vest. Akad. Nauk SSSR. No. 4, Moscow, 1963, pages 119-145

VETCHINKIN, A. N.

The Simplest Line Receivers (Prosteyshiye setevyye priyemniki) ~~1951~~
~~1951~~ Gosenergoizdat, 58 pp, 1951.

Book W-22517, 29 Apr 52

VETCHINKIN, A. N.

PA 190T103

USSR/Radio - Television
Receivers

Jun 51

"The Moskvich Television Set With a 23LK1-B Picture Tube," A. Vetchinkin

"Radio" No 6, pp 42, 43

Synchronization of present Moskvich Television receivers is poor. Describes revised scanning unit for Moskvich with 23LK1-B picture tube (larger than now used), including modified supply and synchronization circuits. Those not wishing to convert to larger picture tube need change only the synchronization unit.

190T103

VETCHINKIN, A. N.

USSR/Electronics — Phase - Measuring systems

Card 1/1 ; Pub. 89 - 26/29

Authors ; Vetchinkin, A.

Title ; Measurement of phase differences

Periodical ; Radio 7, 56-58, July 1954

Abstract ; Simplified methods of several phase-measuring systems in use by radio amateurs, their fields of application, principle of operation and relative values are discussed. The following instruments are described and their circuit diagrams given: 1) An oscillographic type of phase meter, 2) a graduated rotary-type phase meter and 3) a vacuum-tube phase meter. Reference is also made to the use of a goniometer or a phase inverter, built on the bridge principle, and to various component parts. Diagrams.

Institution ; ...

Submitted ; ...

VETCHINKIN, A. N.

USSR/Electronics/Television

Card 1/1

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001859620014-5"

Author ; Vetchinkin, A. N., engineer

Title ; Television theater

Periodical ; Nauka ' Zhizn' 21/2, 35, Feb/1954

Abstract ; Television showings are already in active operations at the Hermitage theater in Moscow, on a screen 3 x 4 meters. A special picture tube had to be made for this purpose, which gives extraordinary brightness and to obtain a sufficiently powerful electron beam a current of 60,000 volts is used. Instead of lenses concave mirrors are used for magnification. The scientific factors involved in the special devices are explained. A special directional antenna is used for reception.

Institution ;

Submitted ;

VETCHINKIN, A. N.

USSR/ Electronics - Measuring instruments

Card 1/1 Pub. 89 - 20/26

Authors : Parkhomenko, V., and Vetchinkin, A.

Title : Recording infrasonic frequencies

Periodical : Radio 4, 40-42, Apr 1955

Abstract : The recording of infrasonic frequencies, i. e. frequencies below the audible range is discussed, and a description is presented of electromagnetic tape recorders and oscillographic instruments utilized for the above purpose. Graph; drawing; circuit diagrams.

Institution :

Submitted :

VETCHINKIN, A.N.

Weak current stabilizers. Priib. 1 tekhn. eksp. no.3:97-99 My-Je
'60. (MIRA 14:10)

1. Institut fizicheskikh problem AN SSSR.
(Photoelectric measurements)

9.5110 (also 1055, 1072, 1137)
54800 1043, 1273, 1164

20716

S/120/61/000/001/059/062
X032/E114

AUTHOR: Vetchinkin, A.N.

TITLE: Stabilization of Low Temperatures in Helium Cryostats

PERIODICAL: Pribery i tekhnika eksperimenta, 1961, No.1, pp.192-193

TEXT: The device described in the present paper is designed to stabilize the temperature of a helium bath to within 10^{-5} °K below 2.18 °K. The stabilizer is illustrated schematically in Fig.1. In this figure R_1 is a 100 ohm constantan resistor, R_2 is a 35 ohm phosphor-bronze element, R_5 is a 200 ohm constantan resistor and A is a 6 V accumulator. The resistor R_3 is variable and is adjusted to balance the bridge at a given temperature. The temperature can be re-established at any desired level with the aid of the special amplifier-converter coupled to the bridge as shown in Fig.1. The basic circuit of the converter is shown in Fig.2. The amplifying device consists of the photo-compensated amplifier Φ -17/1 (F-17/1) described by B.A. Seliber and S.S. Rabinovich (Ref.3) and produced by the "Vibrator" Factory (Leningrad). It also incorporates a vacuum tube amplifier and a dc-to-ac converter. The converter supplies the heater which is
Card 1/4

20716

S/120/61/000/001/059/062
EO32/E114

Stabilization of Low Temperatures in Helium Cryostats

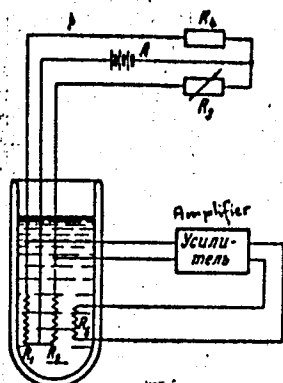
placed in the helium bath together with the phosphor bronze element. The heater is supplied with ac in order to eliminate leakage currents between the element and the heater. This is necessary because the amplifying device is sensitive to voltages in the millimicrovolt range. As can be seen in Fig.2, the photocompensated amplifier F-17/1 is connected to a 2-stage dc amplifier incorporating the 6H2P (6N2P) tube. The F-17/1 and the first amplification stage incorporate a frequency dependent feedback loop ensuring stable working conditions even with very high regulation coefficient. The 6N3P tube supplies the heater through the output transformer which serves as a current converter. The two sections of the primary of the output transformer are so arranged that the core is not magnetized by the dc component of the anode current and this considerably increases the regulation coefficient. The maximum current through the heater is 100 mA and can be reduced by a variable 1000 ohm resistor. The regulation coefficient can be reduced with the aid of the key Π_1 .

There are 2 figures and 3 references: 1 Soviet and 2 English.

Card 2/4

20716
S/120/61/000/001/059/062
Stabilization of Low Temperatures ... E032/E114
ASSOCIATION: Institut fizicheskikh problem AN SSSR
(Institute of Physical Problems, AS USSR)
SUBMITTED: December 3, 1959

Fig. 1



Card 3/4

33517

S/619/61/000/019/007/019
D039/D112

3.9300 (1019, 1327)

AUTHORS: Vetchinkin, A.N.; Preobrazhenskiy, V.B.

TITLE: An automatic seismic recording unit with a magnetic memory

SOURCE: Akademiya nauk SSSR. Institut fiziki Zemli. Trudy, no. 19 (196).
Moscow, 1961, Seismicheskiye pribory, 52-56

TEXT: The authors describe an automatic seismic recording unit with a magnetic memory consisting of a ferromagnetic tape continuously moving past successively placed recording, reproducing and erasing heads. Normally the signal is erased by the erasing head, but if it exceeds a certain level due to seismic activity, it is automatically recorded by a magnetoelectric light-beam oscillograph on photographic tape. The disadvantages of the helical-line recording method are thus avoided and photographic material saved. The recordings are also suitable for automatic mechanical processing. The memory time of 6 secs permits recording of the period immediately preceding the seismic process. The magnetic drum of the memory is driven by a synchronous motor. The unit has six operational channels and one auxiliary channel. The frequency range of the recorded vibrations is

Card 1/3

33517

By 31/01/1971/019

1035/111

An automatic seismic

0.1-7.0 cycles per second. Pulse-frequency modulation with a carrier frequency of 300 cycles per second is used. The dynamic range is 50 db. Re-recording from the magnetic drum is performed by type ОП-15 (OP-15) or other oscillographs or else specially adapted ПОБ-12М (POB-12M) oscillographs. The oscillograph contains six ГБ-III-Б-5 (GB-III-B-5) galvanometers. The width of the photographic tape is 12 cm. A quartz clock or contact chronometer is used for the time marks. Power supply is 12 v d.c. The power consumption under normal conditions is 4 w, during the re-recording process - 50 w. The unit (without oscillograph) is 470 x 470 x 525 mm in size and weighs 35.5 kgf. The magnetic recorder of the unit was developed by A.N. Vetchinkin and the OP-15 oscillograph by V.B. Trobratzenskiy. Field tests of the seismic recording unit were conducted at the Гр-мичешская stantsiya Garm (Garm Seismic Station). In these tests, the ВЭГМК (VLEGK) seismograph with a resistance coil of 1,000 ohms was used as a pickup. The POB-12M magnetoelectric oscillograph served for re-recording. The unit operated for 1 month and recorded all earthquakes with an amplitude of more than 3 mm on the recordings. The new unit can be used at temporary and permanent seismic stations. In experi-

X

Card 2/3

33517

S/619/61/000/019/007/019

D039/D112

An automatic seismic

mental batch is now being produced at the SKB Instituta fiziki Zemli SSSR (SKB of the Institute of Physics of the Earth, AS USSR), and will later be subjected to thorough tests at Soviet seismic stations. There are 3 figures and 5 Soviet-bloc references.

4

Card 3/3

VETCHINKIN, A.N.; KARIMOV, Yu.S.; SHCHEGOLEV, I.F.

Field stabilizer for laboratory electromagnets. Prib. i tekhn. eksp.
10 no.1:182-184 Ja-F '65. (MIRA 18:7)

VETCHINKIN, A.N.; DIATROPTOV, D.B.; ZHDANOV, K.; NEDELYAYEV, A.P.

Microwave dosimeters. Elektron. bol'sh. moshch. no.2:157-166 '63
(MIRA 17:7)

ACCESSION NR: AT4015880

S/3055/63/000/002/0157/0166

AUTHORS: Vetchinkin, A. N.; Diatropov, D. B.; Zhdanov, K. A.;
Nedelyayev, A. P.

TITLE: Dosimeter for electromagnetic oscillations in the decimeter
band

SOURCE: AN SSSR. Fizicheskaya laboratoriya. Elektronika bol'shikh
moshchnostey (High-power electronics), no. 2, 1963, 157-166

TOPIC TAGS: dosimeter, microwave equipment radiation, stationary
dosimeter, portable dosimeter, alarm dosimeter, flux density measure-
ment, incident energy measurement

ABSTRACT: A special dosimeter is described for use around high-
power microwave generators. Unlike standard dosimeters, this re-
quires fewer manual operations and is more automatic. The dosimeter
antenna is a 3 cm loop loaded by a crystal detector through a dissi-

Card 1/3

ACCESSION NR: AT4015880

passive attenuator. The dosimeters operate with continuous oscillation only (pulsed operation of the generator may spoil the dosimeter) and come in three types. The loop efficiency is approximately 7%. Three types of dosimeters are described: (1) stationary with mechanical displacement of loop (to eliminate the effect of standing waves in the room), which reads the energy flux density (from 20 to 200,000 microwatt per square centimeter) and which integrates the incident energy (from 0.001 to 10 J/cm²); (2) pocket type, which integrates the incident energy from 0.01 to 100 J/cm² at a flux density from 0.1 to 10 mW/cm²; (3) portable sound alarm, which produces a signal at a set power flux level from 0.1 to 1 mW/cm². The stationary dosimeter uses vacuum tubes, while the pocket and sound-signal dosimeters are transistorized and fed from dry cells. "The authors are grateful to P. L. Kapitsa for support of this work and to V. P. Peshkov for many valuable hints. "Orig. art. has: 6 figures and 3 formulas.

Card 2/3

ACCESSION NR: AT4015880

ASSOCIATION: Fizicheskaya laboratoriya AN SSSR (Physics Laboratory,
AN SSSR)

SUBMITTED: 00

DATE ACQ: 25Jan64

ENCL: 00

SUB CODE: GE, SD

NR REF SOV: 000

OTHER: 000

Card 3/3

VETCHINKIN, A.N.

Electronic seismograph with capacitance pickup. Izv. AN SSSR. Ser.
geofiz. no.4:485-490 Ap '62. (MIRA 15:4)
(Seismometry--Observations)

VETCHINKIN, A.N.

Log microvoltmeter. Prib. i tekhn. eksp. № no.4:157-158 J1-Ag '61.
(MJRA 14:9)

1. Institut fizicheskikh problem AN SSSR.
(Voltmeter)

36052

S/049/62/000/004/001/003
D201/D301

3.9300

AUTHOR:

Vetchinkin, A.N.

TITLE:

A capacitive pick-up electronic seismograph

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya
no. 4, 1962, 485 - 490

TEXT: The author describes an electronic seismograph with a capacitive pick-up and frequency conversion, whose null-point is stabilized by negative feedback. The HF generator frequency f_1 is controlled by the varying capacity c_p of the pick-up. The latter is formed by a metal plate capacitor, with one plate mounted rigidly on the seismograph pendulum and the other plate earthed. This capacity varies owing to the non-stable equilibrium position of the pendulum and owing to the temperature and plastic deformation of the balance spring; this deformation is many times greater than the displacements of the earth's surface which have to be registered and remains so even when the special alloy springs are used. The null-indication stability is achieved by applying a frequency-dependent negative feedback.

Card 1/3

A capacitive pick-up electronic ...

S/049/62/000/004/001/003
D201/D301

ve feedback. A normal dynamic seismograph is used. An isolated 50 cm² metal plate, rigidly mounted to the pendulum, forms the capacitive sensing device of its displacement. In the working position this plate is at distance of 1 - 1.2 mm from the chassis of the instrument and forms part of the oscillating tank circuit capacitance. The fixed frequency oscillator works at 900 kc/s and the frequency changer produces a 300 c/s beat note with the seismograph. The beat note is transformed into pulses by a pulse-shaping circuit and these pulses are recorded on a magnetic tape. This signal may also be recorded by an automatic printer. The d.c. voltage component, proportional to the spacing between the plates of the pickup capacitor is compared with a reference voltage and the difference, through a LP filter, is applied to the seismograph coil which is placed in a permanent magnet field. The coil is rigidly fixed to the pendulum spring and the pick-up plate. The LP filter is designed so as to attenuate heavily the seismic oscillations, but passes frequencies with periods corresponding to the day and seasonal temperature changes and also to the slow periods corresponding to the plastic deformations of the spring. The heavy negative feedback thus stabilizes the distance between the capacitor plates. Both os-

Card 2/3

A capacitive pick-up electronic ...

S/049/62/000/004/U01/003
D201/D301

cillation use П-402 (P-402) transistors. The oscillator coils use ferrite pot-cores CB-1 (SB-1). To avoid the pulling-in effect between the two oscillators, both are thoroughly screened and connected to the mixer through buffer stages. Since January 1961 the described instrument has been in use at the Moscow Seismic station. The seismograph gain is 30,000 for periods of 1 - 3 sec. The author acknowledges the help of Ye.F. Saverenskiy and S.A. Fedorov. There are 6 figures and 3 Soviet-bloc references.

SUBMITTED: June 16, 1961

Card 3/3

VETCHINKIN, A.N.

Low-temperature stabilizer for helium cryostats. Prih. i tekhn.
eksp. 6 no.1:192-193 Ja-F '61. (MIRA 14:9)

1. Institut fizicheskikh problem AN SSSR.
(Cryostat)

VETCHINKIN, A.N.; PREOBRAZHENSKIY, V.B.

Automatic seismic recording unit with a magnetic memory. Trudy
Inst. fiz. Zem. no.19:52-56 '61. (MIRA 15:3)
(Seismometers)

1ST AND 2ND GROUPS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH GROUPS	
<p><i>The Corrosion of Metals in the Presence of Anthocyanins and Tanning Substances. A. B. Vetchinkin (Zapiski Saratov. Planovogo Inst., Voprosy Ispol'zovaniya Mestnykh Resursov (Mem. Saratov Planning Inst., Questions of the Utilization of Local Resources), 1946, (7), 136-138; Khim. Referat. Zhur., 1941, 4, (2), 116; C. Aba., 1943, 37, 3726).—[In Russian.] Corrosion tests on tinplate and tin (used for the production of food-preserving cans) in 0.1N-H₂SO₄ containing anthocyanin obtained from red beets indicate that anthocyanin increases corrosion. Tannin solutions cause a strong corrosion of iron, steel, and lead. They affect zinc and tin to a smaller degree, and have almost no effect on copper and aluminium. Gelatin and agar-agar added to tannin do not prevent corrosion. Alkaline solutions of tannin do not affect iron.</i></p>					
<p>ASD-11A METALLURGICAL LITERATURE CLASSIFICATION</p>					
STON: STI: 01: 11: 12: 13: 14: 15: 16: 17: 18: 19: 20: 21: 22: 23: 24: 25: 26: 27: 28: 29: 30: 31: 32: 33: 34: 35: 36: 37: 38: 39: 40: 41: 42: 43: 44: 45: 46: 47: 48: 49: 50: 51: 52: 53: 54: 55: 56: 57: 58: 59: 60: 61: 62: 63: 64: 65: 66: 67: 68: 69: 70: 71: 72: 73: 74: 75: 76: 77: 78: 79: 80: 81: 82: 83: 84: 85: 86: 87: 88: 89: 90: 91: 92: 93: 94: 95: 96: 97: 98: 99: 100: 101: 102: 103: 104: 105: 106: 107: 108: 109: 110: 111: 112: 113: 114: 115: 116: 117: 118: 119: 120: 121: 122: 123: 124: 125: 126: 127: 128: 129: 130: 131: 132: 133: 134: 135: 136: 137: 138: 139: 140: 141: 142: 143: 144: 145: 146: 147: 148: 149: 150: 151: 152: 153: 154: 155: 156: 157: 158: 159: 160: 161: 162: 163: 164: 165: 166: 167: 168: 169: 170: 171: 172: 173: 174: 175: 176: 177: 178: 179: 180: 181: 182: 183: 184: 185: 186: 187: 188: 189: 190: 191: 192: 193: 194: 195: 196: 197: 198: 199: 200: 201: 202: 203: 204: 205: 206: 207: 208: 209: 210: 211: 212: 213: 214: 215: 216: 217: 218: 219: 220: 221: 222: 223: 224: 225: 226: 227: 228: 229: 230: 231: 232: 233: 234: 235: 236: 237: 238: 239: 240: 241: 242: 243: 244: 245: 246: 247: 248: 249: 250: 251: 252: 253: 254: 255: 256: 257: 258: 259: 260: 261: 262: 263: 264: 265: 266: 267: 268: 269: 270: 271: 272: 273: 274: 275: 276: 277: 278: 279: 280: 281: 282: 283: 284: 285: 286: 287: 288: 289: 290: 291: 292: 293: 294: 295: 296: 297: 298: 299: 300: 301: 302: 303: 304: 305: 306: 307: 308: 309: 310: 311: 312: 313: 314: 315: 316: 317: 318: 319: 320: 321: 322: 323: 324: 325: 326: 327: 328: 329: 330: 331: 332: 333: 334: 335: 336: 337: 338: 339: 340: 341: 342: 343: 344: 345: 346: 347: 348: 349: 350: 351: 352: 353: 354: 355: 356: 357: 358: 359: 360: 361: 362: 363: 364: 365: 366: 367: 368: 369: 370: 371: 372: 373: 374: 375: 376: 377: 378: 379: 380: 381: 382: 383: 384: 385: 386: 387: 388: 389: 390: 391: 392: 393: 394: 395: 396: 397: 398: 399: 400: 401: 402: 403: 404: 405: 406: 407: 408: 409: 410: 411: 412: 413: 414: 415: 416: 417: 418: 419: 420: 421: 422: 423: 424: 425: 426: 427: 428: 429: 430: 431: 432: 433: 434: 435: 436: 437: 438: 439: 440: 441: 442: 443: 444: 445: 446: 447: 448: 449: 450: 451: 452: 453: 454: 455: 456: 457: 458: 459: 460: 461: 462: 463: 464: 465: 466: 467: 468: 469: 470: 471: 472: 473: 474: 475: 476: 477: 478: 479: 480: 481: 482: 483: 484: 485: 486: 487: 488: 489: 490: 491: 492: 493: 494: 495: 496: 497: 498: 499: 500: 501: 502: 503: 504: 505: 506: 507: 508: 509: 510: 511: 512: 513: 514: 515: 516: 517: 518: 519: 520: 521: 522: 523: 524: 525: 526: 527: 528: 529: 530: 531: 532: 533: 534: 535: 536: 537: 538: 539: 540: 541: 542: 543: 544: 545: 546: 547: 548: 549: 550: 551: 552: 553: 554: 555: 556: 557: 558: 559: 560: 561: 562: 563: 564: 565: 566: 567: 568: 569: 570: 571: 572: 573: 574: 575: 576: 577: 578: 579: 580: 581: 582: 583: 584: 585: 586: 587: 588: 589: 590: 591: 592: 593: 594: 595: 596: 597: 598: 599: 600: 601: 602: 603: 604: 605: 606: 607: 608: 609: 610: 611: 612: 613: 614: 615: 616: 617: 618: 619: 620: 621: 622: 623: 624: 625: 626: 627: 628: 629: 630: 631: 632: 633: 634: 635: 636: 637: 638: 639: 640: 641: 642: 643: 644: 645: 646: 647: 648: 649: 650: 651: 652: 653: 654: 655: 656: 657: 658: 659: 660: 661: 662: 663: 664: 665: 666: 667: 668: 669: 670: 671: 672: 673: 674: 675: 676: 677: 678: 679: 680: 681: 682: 683: 684: 685: 686: 687: 688: 689: 690: 691: 692: 693: 694: 695: 696: 697: 698: 699: 700: 701: 702: 703: 704: 705: 706: 707: 708: 709: 710: 711: 712: 713: 714: 715: 716: 717: 718: 719: 720: 721: 722: 723: 724: 725: 726: 727: 728: 729: 730: 731: 732: 733: 734: 735: 736: 737: 738: 739: 740: 741: 742: 743: 744: 745: 746: 747: 748: 749: 750: 751: 752: 753: 754: 755: 756: 757: 758: 759: 760: 761: 762: 763: 764: 765: 766: 767: 768: 769: 770: 771: 772: 773: 774: 775: 776: 777: 778: 779: 780: 781: 782: 783: 784: 785: 786: 787: 788: 789: 790: 791: 792: 793: 794: 795: 796: 797: 798: 799: 800: 801: 802: 803: 804: 805: 806: 807: 808: 809: 810: 811: 812: 813: 814: 815: 816: 817: 818: 819: 820: 821: 822: 823: 824: 825: 826: 827: 828: 829: 830: 831: 832: 833: 834: 835: 836: 837: 838: 839: 840: 841: 842: 843: 844: 845: 846: 847: 848: 849: 850: 851: 852: 853: 854: 855: 856: 857: 858: 859: 860: 861: 862: 863: 864: 865: 866: 867: 868: 869: 870: 871: 872: 873: 874: 875: 876: 877: 878: 879: 880: 881: 882: 883: 884: 885: 886: 887: 888: 889: 890: 891: 892: 893: 894: 895: 896: 897: 898: 899: 900: 901: 902: 903: 904: 905: 906: 907: 908: 909: 910: 911: 912: 913: 914: 915: 916: 917: 918: 919: 920: 921: 922: 923: 924: 925: 926: 927: 928: 929: 930: 931: 932: 933: 934: 935: 936: 937: 938: 939: 940: 941: 942: 943: 944: 945: 946: 947: 948: 949: 950: 951: 952: 953: 954: 955: 956: 957: 958: 959: 960: 961: 962: 963: 964: 965: 966: 967: 968: 969: 970: 971: 972: 973: 974: 975: 976: 977: 978: 979: 980: 981: 982: 983: 984: 985: 986: 987: 988: 989: 990: 991: 992: 993: 994: 995: 996: 997: 998: 999: 1000: 1001: 1002: 1003: 1004: 1005: 1006: 1007: 1008: 1009: 1010: 1011: 1012: 1013: 1014: 1015: 1016: 1017: 1018: 1019: 1020: 1021: 1022: 1023: 1024: 1025: 1026: 1027: 1028: 1029: 1030: 1031: 1032: 1033: 1034: 1035: 1036: 1037: 1038: 1039: 1040: 1041: 1042: 1043: 1044: 1045: 1046: 1047: 1048: 1049: 1050: 1051: 1052: 1053: 1054: 1055: 1056: 1057: 1058: 1059: 1060: 1061: 1062: 1063: 1064: 1065: 1066: 1067: 1068: 1069: 1070: 1071: 1072: 1073: 1074: 1075: 1076: 1077: 1078: 1079: 1080: 1081: 1082: 1083: 1084: 1085: 1086: 1087: 1088: 1089: 1090: 1091: 1092: 1093: 1094: 1095: 1096: 1097: 1098: 1099: 1100: 1101: 1102: 1103: 1104: 1105: 1106: 1107: 1108: 1109: 1110: 1111: 1112: 1113: 1114: 1115: 1116: 1117: 1118: 1119: 1120: 1121: 1122: 1123: 1124: 1125: 1126: 1127: 1128: 1129: 1130: 1131: 1132: 1133: 1134: 1135: 1136: 1137: 1138: 1139: 1140: 1141: 1142: 1143: 1144: 1145: 1146: 1147: 1148: 1149: 1150: 1151: 1152: 1153: 1154: 1155: 1156: 1157: 1158: 1159: 1160: 1161: 1162: 1163: 1164: 1165: 1166: 1167: 1168: 1169: 1170: 1171: 1172: 1173: 1174: 1175: 1176: 1177: 1178: 1179: 1180: 1181: 1182: 1183: 1184: 1185: 1186: 1187: 1188: 1189: 1190: 1191: 1192: 1193: 1194: 1195: 1196: 1197: 1198: 1199: 1200: 1201: 1202: 1203: 1204: 1205: 1206: 1207: 1208: 1209: 1210: 1211: 1212: 1213: 1214: 1215: 1216: 1217: 1218: 1219: 1220: 1221: 1222: 1223: 1224: 1225: 1226: 1227: 1228: 1229: 1230: 1231: 1232: 1233: 1234: 1235: 1236: 1237: 1238: 1239: 1240: 1241: 1242: 1243: 1244: 1245: 1246: 1247: 1248: 1249: 1250: 1251: 1252: 1253: 1254: 1255: 1256: 1257: 1258: 1259: 1260: 1261: 1262: 1263: 1264: 1265: 1266: 1267: 1268: 1269: 1270: 1271: 1272: 1273: 1274: 1275: 1276: 1277: 1278: 1279: 1280: 1281: 1282: 1283: 1284: 1285: 1286: 1287: 1288: 1289: 1290: 1291: 1292: 1293: 1294: 1295: 1296: 1297: 1298: 1299: 1300: 1301: 1302: 1303: 1304: 1305: 1306: 1307: 1308: 1309: 1310: 1311: 1312: 1313: 1314: 1315: 1316: 1317: 1318: 1319: 1320: 1321: 1322: 1323: 1324: 1325: 1326: 1327: 1328: 1329: 1330: 1331: 1332: 1333: 1334: 1335: 1336: 1337: 1338: 1339: 1340: 1341: 1342: 1343: 1344: 1345: 1346: 1347: 1348: 1349: 1350: 1351: 1352: 1353: 1354: 1355: 1356: 1357: 1358: 1359: 1360: 1361: 1362: 1363: 1364: 1365: 1366: 1367: 1368: 1369: 1370: 1371: 1372: 1373: 1374: 1375: 1376: 1377: 1378: 1379: 1380: 1381: 1382: 1383: 1384: 1385: 1386: 1387: 1388: 1389: 1390: 1391: 1392: 1393: 1394: 1395: 1396: 1397: 1398: 1399: 1400: 1401: 1402: 1403: 1404: 1405: 1406: 1407: 1408: 1409: 1410: 1411: 1412: 1413: 1414: 1415: 1416: 1417: 1418: 1419: 1420: 1421: 1422: 1423: 1424: 1425: 1426: 1427: 1428: 1429: 1430: 1431: 1432: 1433: 1434: 1435: 1436: 1437: 1438: 1439: 1440: 1441: 1442: 1443: 1444: 1445: 1446: 1447: 1448: 1449: 1450: 1451: 1452: 1453: 1454: 1455: 1456: 1457: 1458: 1459: 1460: 1461: 1462: 1463: 1464: 1465: 1466: 1467: 1468: 1469: 1470: 1471: 1472: 1473: 1474: 1475: 1476: 1477: 1478: 1479: 1480: 1481: 1482: 1483: 1484: 1485: 1486: 1487: 1488: 1489: 1490: 1491: 1492: 1493: 1494: 1495: 1496: 1497: 1498: 1499: 1500: 1501: 1502: 1503: 1504: 1505: 1506: 1507: 1508: 1509: 1510: 1511: 1512: 1513: 1514: 1515: 1516: 1517: 1518: 1519: 1520: 1521: 1522: 1523: 1524: 1525: 1526: 1527: 1528: 1529: 1530: 1531: 1532: 1533: 1534: 1535: 1536: 1537: 1538: 1539: 1540: 1541: 1542: 1543: 1544: 1545: 1546: 1547: 1548: 1549: 1550: 1551: 1552: 1553: 1554: 1555: 1556: 1557: 1558: 1559: 1560: 1561: 1562: 1563: 1564: 1565: 1566: 1567: 1568: 1569: 1570: 1571: 1572: 1573: 1574: 1575: 1576: 1577: 1578: 1579: 1580: 1581: 1582: 1583: 1584: 1585: 1586: 1587: 1588: 1589: 1590: 1591: 1592: 1593: 1594: 1595: 1596: 1597: 1598: 1599: 1600: 1601: 1602: 1603: 1604: 1605: 1606: 1607: 1608: 1609: 1610: 1611: 1612: 1613: 1614: 1615: 1616: 1617: 1618: 1619: 1620: 1621: 1622: 1623: 1624: 1625: 1626: 1627: 1628: 1629: 1630: 1631: 1632: 1633: 1634: 1635: 1636: 1637: 1638: 1639: 1640: 1641: 1642: 1643: 1644: 1645: 1646: 1647: 1648: 1649: 1650: 1651: 1652: 1653: 1654: 1655: 1656: 1657: 1658: 1659: 1660: 1661: 1662: 1663: 1664: 1665: 1666: 1667: 1668: 1669: 1670: 1671: 1672: 1673: 1674: 1675: 1676: 1677: 1678: 1679: 1680: 1681: 1682: 1683: 1684: 1685: 1686: 1687: 1688: 1689: 1690: 1691: 1692: 1693: 1694: 1695: 1696: 1697: 1698: 1699: 1700: 1701: 1702: 1703: 1704: 1705: 1706: 1707: 1708: 1709: 1710: 1711: 1712: 1713: 1714: 1715: 1716: 1717: 1718: 1719: 1720: 1721: 1722: 1723: 1724: 1725: 1726: 1727: 1728: 1729: 1730: 1731: 1732: 1733: 1734: 1735: 1736: 1737: 1738: 1739: 1740: 1741: 1742: 1743: 1744: 1745: 1746: 1747: 1748: 1749: 1750: 1751: 1752: 1753: 1754: 1755: 1756: 1757: 1758: 1759: 1760: 1761: 1762: 1763: 1764: 1765: 1766: 1767: 1768: 1769: 1770: 1771: 1772: 1773: 1774: 1775: 1776: 1777: 1778: 1779: 1780: 1781: 1782: 1783: 1784: 1785: 1786: 1787: 1788: 1789: 1790: 1791: 1792: 1793: 1794: 1795: 1796: 1797: 1798: 1799: 1800: 1801: 1802: 1803: 1804: 1805: 1806: 1807: 1808: 1809: 1810: 1811: 1812: 1813: 1814: 1815: 1816: 1817: 1818: 1819: 1820: 1821: 1822: 1823: 1824: 1825: 1826: 1827: 1828: 1829: 1830: 1831: 1832: 1833: 1834: 1835: 1836: 1837: 1838: 1839: 1840: 1841: 1842: 1843: 1844: 1845: 1846: 1847: 1848: 1849: 1850: 1851: 1852: 1853: 1854: 1855: 1856: 1857: 1858: 1859: 1860: 1861: 1862: 1863: 1864: 1865: 1866: 1867: 1868: 1869: 1870: 1871: 1872: 1873: 1874: 1875: 1876: 1877: 1878: 1879: 1880: 1881: 1882: 1883: 1884: 1885: 1886: 1887: 1888: 1889: 1890: 1891: 1892: 1893: 1894: 1895: 1896: 1897: 1898: 1899: 1900: 1901: 1902: 1903: 1904: 1905: 1906: 1907: 1908: 1909: 1910: 1911: 1912: 1913: 1914: 1915: 1916: 1917: 1918: 1919: 1920: 1921: 1922: 1923: 1924: 1925: 1926: 1927: 1928: 1929: 1930: 1931: 1932: 1933: 1934: 1935: 1936: 1937: 1938: 1939: 1940: 1941: 1942: 1943: 1944: 1945: 1946: 1947: 1948: 1949: 1950: 1951: 1952: 1953: 1954: 1955: 1956: 1957: 1958: 1959: 1960: 1961: 1962: 1963: 1964: 1965: 1966: 1967: 1968: 1969: 1970: 1971: 1972: 1973: 1974: 1975: 1976: 1977: 1978: 1979: 1980: 1981: 1982: 1983: 1984: 1985: 1986: 1987: 1988: 1989: 1990: 1991: 1992: 1993: 1994: 1995: 1996: 1997: 1998: 1999: 2000: 2001: 2002: 2003: 2004: 2005: 2006: 2007: 2008: 2009: 2010: 2011: 2012: 2013: 2014: 2015: 2016: 2017: 2018: 2019: 2020: 2021: 2022: 2023: 2024: 2025: 2026: 2027: 2028: 2029: 2030: 2031: 2032: 2033: 2034: 2035: 2036: 2037: 2038: 2039: 2040: 2041: 2042: 2043: 2044: 2045: 2046: 2047: 2048: 2049: 2050: 2051: 2052: 2053: 2054: 2055: 2056: 2057: 2058: 2059: 2060: 2061: 2062: 2063: 2064: 2065: 2066: 2067: 2068: 2069: 2070: 2071: 2072: 2073: 2074: 2075: 2076: 2077: 2078: 2079: 2080: 2081: 2082: 2083: 2084: 2085: 2086: 2087: 2088: 2089: 2090: 2091: 2092: 2093: 2094: 2095: 2096: 2097: 2098: 2099: 2100: 2101: 2102: 2103: 2104: 2105: 2106: 2107: 2108: 2109: 2110: 2111: 2112: 2113: 2114: 2115: 2116: 2117: 2118: 2119: 2120: 2121: 2122: 2123: 2124: 2125: 2126: 2127: 2128: 2129: 2130: 2131: 2132: 2133: 2134: 2135: 2136: 2137: 2138: 2139: 2140: 2141: 2142: 2143: 2144: 2145: 2146: 2147: 2148: 2149: 2150: 2151: 2152: 2153: 2154: 2155: 2156: 2157: 2158: 2159					

VETCHINKIN, A.R. (g.Saratov)

Indicators prepared from plants. Khim.v shkole 14 no.4:61-62
J1-A4; '59. (MIRA 12:11)

(Indicators and test papers)
(Rumex)

VETCHINKIN, G. A. and GANNELY, V. Ya.

"On the problem of protection of asynchronous motors with short circuited rotors,"
Industrial Power, 7th edition, 1952.

GANNEL', V.Ya., inzh.; VETCHINKIN, G.A., inzh.

Increase in the reliability of a.c. relay protection.
Energetik 8 no.9:17-18 S '60. (MIRA 14:9)
(Electric relays) (Electric protection)

IVANTSOV, A.I.; CHAVKIN, Kh.M.; VETCHINKIN, N.I.

Gear teeth measuring stand ~~PMZ~~-5. Stan. 1 instr. 24 no.6:25-23 Je '53.
(MLRA 6:7)
(Gearing) (Gauges)

Microfilm frame containing a document page. The page is titled "VETCHINKIN, N. S." and contains the following text:

Gas producer for powdered fuel. N. S. Vetchinkin³
and I. A. Men'shikov. Russ. 81,507, Aug. 31, 1937.
Construction details.

Handwritten "ca" is visible in the upper left corner of the page.

The microfilm frame includes a header with the text "PROCESSING AND PROPERTIES INDEX" and a footer with the text "METALLURGICAL LITERATURE CLASSIFICATION".

VETCHINKIN, N. S.

IAkutsko-Chukotskaia avtomagistral' dlia Velikogo severnogo vozdušnogo puti.
[Yakut-Chukotskaia highway for the Great Northern Airway]. (Doroga i
avtomobil', 1937, no. 10, p. 2-6, maps). DLC: TEL.D6

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress,
Reference Department, Washington, 1952, Unclassified.

VETCHINKIN, N.S., doktor tekhnicheskikh nauk.

Determining the operating capacity of automobile and tractor engines. Avt.trakt.prom. no.10:3-4 0 '54. (MLRA 7:10)
(Automobiles--Engines)

VETCHINKIN, N. S.

USSR/Engineering - Logging tractor

Card 1/1

Author : Vetchinkin, N. S., Prof.

Title : Floating tractor

Periodical : Nauka i Zhizn' 21/4, 33, April 1954

Abstract : The experimental factory of the Central Scientific Institute for Water Transportation of Logs has developed the VL-3 tractor, a very powerful machine which is capable of going over rough terrain and through water. It is also equipped with a derrick. The machine is 7.5 meters long, 3.1 meters wide and 2.85 meters high. Photographs.

Institution :

Submitted :

Handwritten: Vetchinkin, N.S.
VETCHINKIN, N.S., prof.

The electrification of lumber transportation. Mekh. trud. rab. 11
no.10:11-14 0 '57. (MIRA 10:11)
(Lumber--Transportation)

VETCHINKIN, N.S., prof.

First Russian road machinery. Avt.dor. 22 no.11:23-24
H '59. (MIRA 13:2)
(Road machinery)

VETCHINKIN, Nikolay Sergeyevich, prof.; KORUNOV, M.M., kand.tekhn.nauk, retsenzent; SOLOV'YEV, N.S., red.; PITERMAN, Ye.L., red.isd-va; PRUKOP'YEVA, L.N., tekhn.red.

[Truck tractor transportation of logs, principles of hauling estimates and truck performance] Avtotraktornaya tiaga na lesotransporte; osnovy tiagovykh raschetov i proizvoditel'nost' mashin. Izd.2., perer. i dep. Moskva, Goslesbumizdat, 1958. 420 p. (MIRA 12:6)

1.Kafedra tyagovykh mashin Lesotekhnicheskoy akademii im. S.M. Kirova (for Korunov).

(Lumber--Transportation) (Motortrucks)

VETCHINKIN, S.I.

Use of hypervirial correlations in evaluating energy displacement. Teoret. i eksper. khim. 1 no.4:423-427 '65.

(MIRA 18:10)

1. Institut khimicheskoy fiziki AN SSSR, Moskva.

5 (4)

AUTHORS:

Vetchinkin, S. I., Pshenichnov, Ye. A., SOV/76-33-6-16/44
Sokolov, N. D.

TITLE:

Influence of the Hydrogen Bond on the Energy of the Ion Lattice of Ammonium Chloride and Evaluation of the Affinity of Ammonia Molecules to the Proton (Vliyaniye vodorodnoy svyazi na energiyu ionnoy reshetki khloristogo ammoniya i otsenka srodstva molekuly ammiaka k protonu)

PERIODICAL:

Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6, pp 1269-1274 (USSR)

ABSTRACT:

It may be assumed that in ion crystals containing H_3O^+ or NH_4^+ ions, between cation and anion beside the Coulomb forces there is a hydrogen bond which increases the stability of the ion lattice. Usually, in energy computations this hydrogen bond is not considered (e.g. reference 1), which leads to a lesser result in computations of ion lattice energy. If, however, the exact ion lattice energy (IE) is known, the important molecular constant - the proton affinity (P) of the molecule - may be computed according to equation (1). The recently obtained value of Ref 3 for the (P) of the water molecule

Card 1/3

Influence of the Hydrogen Bond on the Energy of the Ion Lattice of Ammonium Chloride and Evaluation of the Affinity of Ammonia Molecules to the Proton SOV/76..33-6-16/44

is lower by 19 kcal as compared to the value obtained according to Ref 2, which points to the fact that in the computations per (Ref 3) the effect of the hydrogen bond between cation and anion was neglected. From quantum-mechanical computations (Ref 5) of the energy of interaction of the molecule A - H with the atom B (which exhibits an undivided electron pair) the following equation was derived: $W = Q + P_1\omega - P_2$ (2)

(Q = Coulomb energy, $P_1\omega$ = repulsive energy between H and B, P_2 = exchange (or donor-acceptor) energy of the attraction between H and B). An investigation is then made of the applicability of equation (2) to the computation of

interaction between the cation NH_4^+ and anion Cl^- in the NH_4Cl crystal and it was found that by the selected semiempirical computation method a computation is possible only if $P_2 = 0$

is assumed, by which a lower (IE) is obtained. The change of the (IE) caused by the hydrogen bond is assumed to be of the

Card 2/3

Influence of the Hydrogen Bond on the Energy of the Ion Lattice of Ammonium Chloride and Evaluation of the Affinity of Ammonia Molecules to the Proton SOV/76-33-6-16/44

same magnitude as the last mentioned decrease in the (IE). From this point of view a computation of the lattice energy for ammonium chloride is made and it is found that the correction of the computation according to Bleick (Ref 1), in which the hydrogen bond was neglected, must be of the magnitude 10 kcal, and, consequently, the value $P_{\text{NH}_3} = 194 \pm 7$ kcal. There are 1 figure, 1 table, and 10 references, 7 of which are Soviet.

ASSOCIATION: Akademiya nauk SSSR, Institut khimicheskoy fiziki, Moskva (Academy of Sciences of the USSR, Institute of Chemical Physics, Moscow)

SUBMITTED: October 31, 1957

Card 3/3

68329

SOV/51-8-1-36/40

24,3400

AUTHORS:

Vetchinkin, S.I., Solodovnikov, S.P. and Chibrikov, V.M.

TITLE:

Distribution of Spin Density in the Chromium Dibenzene⁺ Cation

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 1, pp 137-140 (USSR)

ABSTRACT:

Chromium dibenzene is a representative of a new type of compounds known as sandwich type compounds. In these compounds the metal atom is not bound to a single carbon atom but to the whole π system of an aromatic hydrocarbon (Refs 1, 2). The present paper deals with distribution of the spin density in the chromium dibenzene cation. The spin density was found from the hyperfine structure (h.f.s.) from electron paramagnetic resonance (e.p.r.) spectra of strongly diluted solutions of the chromium dibenzene cation and solutions of chromium dibenzene cations with isopropyl and cyclohexyl substituents in both benzene rings. Fig 1 shows the e.p.r. spectrum of the chromium dibenzene cation obtained in an acetone solution at -70°C . From the ratio of the h.f.s. intensities and the constancy of the hyperfine splitting ($3.6 \pm 0.5 \text{ Oe}$) it follows that the unpaired electron interacts with protons of both benzene rings; all twelve protons in these rings act in the same way. Voevodskiy, Molin and Chibrikov (Ref 7) found that introduction of a hydrocarbon substituent did not alter the magnitude

Card 1/3

68329

SOV/51-6-1-36/40

Distribution of Spin Density in the Chromium Dibenzene Cation

of the hyperfine splitting and that the number of the h.f.s. components represented the number of the remaining protons in both benzene rings. A more detailed investigation carried out by the present authors showed that in the spectrum of the chromium dicumene cation (Fig 2, at -90°C) each component of the ring proton h.f.s. is split into a triplet with a separation close to 1.0 Oe. This additional triplet splitting is due to splitting on both α -protons of the isopropyl substituents. Similar effects were observed in the case of the chromium dibenzene cation with a cyclohexyl substituent in both benzene rings. Bubnov and Chibrikina (Ref 8) reported additional hyperfine splitting in the spectrum of the chromium dibenzene cation in solution, which was ascribed to interaction of the unpaired electron with a magnetic moment of the Cr^{53} isotope which is present in the natural chromium. This was also found by the present authors and is shown in Fig 3; the hyperfine splitting between the h.f.s. components of chromium amounted to 19.0 Oe. All the e.p.r. spectra reported by the authors were recorded with a spectrometer described earlier (Ref 9). McConnell and Chestnut (Ref 11) suggested an indirect interaction to explain hyperfine splitting of the proton of the C-H group and showed that this splitting is proportional to the spin density at the p_z -orbital of the carbon atom in the C-H group. In the first approximation the coefficient of proportionality Q , between the hyperfine splitting and the spin density is constant for all aromatic

Card 2/3

68329

Distribution of Spin Density in the Chromium Dibenzene Cation

SOV/51-8-1-36/40

radicals and ion-radicals. If it is assumed that the coefficient Q is the same in metal-aromatic compounds, then the observed proton hyperfine splitting (3.6 Oe) shows that the spin density in the P_z -orbit of a single carbon atom is 0.16. Since all protons are equivalent, the spin density at all the carbon atoms is the same. It follows that the spin density in the π system of both benzene rings is equal to 1.92. In order to reduce the total spin density of the whole molecule of the chromium dibenzene cation to unity we have to assume that the spin density at the atomic orbits of chromium is 0.92 and its sign is opposite to the sign of the density at the benzene rings. The requirement of normalization of the spin density to unity follows from the fact that the chromium dibenzene cation has only one unpaired electron (Ref 5). The authors show that other evidence (Refs 12, 13) also supports the suggested spin density. Acknowledgments are made to Yu.A. Sorokin and G.A. Domrachev for preparation of the compounds studied. There are 3 figures and 15 references, 9 of which are Soviet, 4 English and 2 German.

SUBMITTED: June 1st, 1959

Card 3/3